09/688,077

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 369212000130	Application Number 09/169,185
Applicant SUGIHARA et al.	
Filing Date October 8, 1998	Group Art Unit 1744

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
DAR	1.	06/03/69	3,448,377	Seiwatz et al.	—	—	
DAR	2.	02/07/78	4,072,578	Cady et al.	195	127	
DAR	3.	11/03/87	4,704,576	Tributsch et al.	324	158R	
DAR	4.	07/19/88	4,758,786	Hafeman	324	158D	
DAR	5.	08/08/89	4,855,243	Simic-Glavaski	436	63	
DAR	6.	08/08/89	4,856,073	Farber et al.	382	C	
DAR	7.	10/26/90	4,963,815	Hafeman	324	715	
DAR	8.	02/16/93	5,187,096	Giaever et al.	435	291	
DAR	9.	07/11/95	5,432,086	Fränzl et al.	435	291	
DAR	10.	10/08/96	5,563,067	Sugihara et al.	435	287.1	
DAR	11.	09/22/98	5,810,725	Sugihara et al.	C00	372	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES	Translation NO
DAR	12.	08/31/76	1,514,046	GB	—	—		
DAR	13.	4/16/87	3,634,132	DE	—	—	Partial	
DAR	14.	03/10/77	52-31825	Japan	—	—	Partial	
DAR	15.	06/25/80	55-84148	Japan	—	—		
DAR	16.	04/15/88	63-84476	Japan	—	—	Partial	
DAR	17.	01/25/89	0300651	Europe	—	—		
DAR	18.	05/09/90	0367432	Europe	—	—		
DAR	19.	10/04/90	WO 90/11371	WIPO	—	—		
DAR	20.	11/14/91	WO 91/17240	WIPO	—	—		
DAR	21.	11/26/91	3-265814	Japan	—	—	Partial	
DAR	22.	07/24/92	4-204244	Japan	—	—	Partial	
DAR	23.	09/17/92	WO 92/15700	WIPO	—	—		
DAR	24.	03/09/94	0585933	EP	—	—		
DAR	25.	03/22/94	06078889	Japan	—	—	Partial	

EXAMINER: David Reisner — DATE CONSIDERED: 3-4-99

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES	Translation NO
	26.	10/25/94	06296595	Japan	—	—	Partial	

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

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	27.	Baxter et al., "Microfabrication in silicon microphysiometry" *Clin. Chem. 40*(9):1800-1804 (1994).
	28.	Brochure for muti channel systems, data acquisition: High end tools for multi electrode measurements-Mea 60-SYSTEM, mea 1060, multi electrode array.
	29.	Company brochure RS "Steckverbindungen-Labor/prüfung 1-1193".
	30.	Company brochure ARIES "Series 537 universal PLCC" and "Series 536 PLCC" (published later but relating to earlier-distibuted components).
	31.	Company brochure 3M "Textool sockets and trays" (also relating to an earlier distributed component).
	32.	Eggers et al., "Electronically wired petri dish: A microfabricated interface to the biological neuronal network" *J. Vac. Sci. Technol. B. 8*(6):1392-1398 (1990).
	33.	Gähwiler et al., "Multiple actions of acetylcholine on hippocampal pyramidal cells in organotypic explant cultures" *Neurosci. 7*(5):1243-1256 (1982).
	34.	Gonzales et al., "Cell and explant culture of olfactory chemoreceptor cells" *J. Neurosci. 14*(2):77-90 (1985).
	35.	Gross et al., "A new fixed-array multi-microelectrode system designed for long-term monitoring of extracellular single unit neuronal activity in vitro" *Neurosci. Lett. 6*:101-105 (1977).
	36.	Gross et al., "Recording of spontaneous activity with photoetched microelectrode surfaces from mouse spinal neurons in culture" *J. Neurosci. Meth. 5*:13-22 (1982).
	37.	Gross et al., "Long-term monitoring of spontaneous single unit activity from neuronal monolayer networks cultured on photoetched mutielectrode surfaces" *J. Electrophysiol. Tech. 9*:55-69 (1982).
	38.	Gross et al., "Multielectrode investigations of network properties in neural monolayer cultures", *In*: Proc. of the sixth southern biomedical engineering conference, pp212-217, Mc Gregor abd Werner, Washington D.C., (1987).
	39.	Gross et al., "An approach to the determination of network properties in mammalian neuronal monolayer cultures" *Proc. of the First IEEE Conference on Synthetic Microstructures in Biological Res.*, Arlie, VA., March 24-26, 1986.
	40.	Hämmerle et al., "Extracellular recording in neuronal networks with substrate integrated microelectrode arrays" *Biosens. Bioelect. 9*:691-696 (1994).
	41.	Hazeki et al., "Modification by Islet-activating protein of receptor-mediated regulation of cyclic AMP accumulation in isolated rat heart cells" *J. Biol. Chem. 256*(6):2856-2862 (1981).

EXAMINER:	DATE CONSIDERED: 3-1-99

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OTHER DOCUMENTS *(including author, title, date, pertinent pages, etc.)*

Examiner Initials	Ref. No.	Title
DAR	42.	Kuriyama et al., "A single chip biosensor" *NEC Res. Develop.*, No. 78, pp 1[illegible], Tokyo, JP (1985).
DAR	43.	Kuroda, "Adenosine/ATP receptor in nervous system and physiologic function" *Protein Nucl. Acid Enzyme 29*(12):1405-1423 (1984) English Abstract.
DAR	44.	Nakao et al., "Scanning-laser-beam semiconductor ph-imaging sensor" *Sensors & Actuators B 20*(2/3):119-123 (1994).
DAR	45.	Nisch et al., "A thin film microelectrode array for monitoring extracellular neuronal activity *in vitro*" *Biosens. Bioelect. 9*:737-741 (1994).
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DAR	52.	Yamamoto, "In vitro synaptic activity" *Protein Nucl. Acid Enzyme 22*(6):502-505 (1977) English Abstract.
DAR	53.	Yamamoto et al., "Black widow spider venom: excitatory action on hippochampal neurons" *Brain Res. 244*(2):382-386 (1982).
DAR	54.	Yamamoto, "Electrical activity of brain sector" *Protein Nucl. Acid Enzyme 29*(12):1205-1211 (1984) English Abstract.

EXAMINER: David Redekopf	DATE CONSIDERED: 3-1-99

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